CADENCE

CEQ-777

4 BAND PARAMETRIC EQUALIZER // OWNERS MANUAL

Thank you for purchasing the Cadence Model CEQ-777 4 Band Parametric Equalizer. With proper installation and care the CEQ-777 will provide you with years of performance and reliability.

The CEQ-777 is intended for those who value the acoustic benefits of a multi-band parametric equalizer coupled with the power of controlling four amplifier channels and two independent sub woofer channels directly from the automobile dash board.

The CEQ-777 is a passive pre-amp equalizer requiring external amplification to power speakers. It provides 2 channels of front output, 2 channels of rear output, and 2 channels of subwoofer output.

PARAGRAPHIC GRAPHIC EQUALIZATION

Every car interior produces at least one sharp peak or dip in the frequency response that results in highly unnatural sound reduction. But the exact frequency and its level of intensity depend on unpredictable factors such as the size and volume of the interior, type of material used for the interior (cloth, leather, vinyl), whether a window is open or how many passengers are onboard.

Because of these variables, even a multi-band graphic equalizer will not be able to control a particular frequency without unnecessarily affecting others. The listener is therefore faced with either unwanted alterations of frequencies or having unnatural peaks and dips, which might result in boomy bass, muddied vocal range or harsh treble response.

This unit is the first production pre-amplifier to incorporate a specific bandwidth parametric equalizer with 12dB boost or cut on its seven bands. It can compensate for the seven acoustic anomalies unique to the automotive environment. This unit easily becomes the “mission control center” of any high end automotive sound system.

When increasing the boost of any frequency you are actually increasing the output voltage of the equalizer to the amplifier. Please be sure that your amplifier has enough “head room” and is capable of handling the source increase with out clipping. It is also important that your speakers are capable of reproducing the frequency range which you have chosen to boost without being over driven. For example, do not attempt to boost a 60Hz signal to a small midrange driver, this will only cause the midrange to burn out. The proper procedure for a successful installation is to incorporate either an electronic crossover or passive crossovers to help control which frequencies will actually reach the proper speakers.

For basic installations in a vehicle with larger speakers in the rear and smaller speakers in the front, utilize the fader control to adjust the amount of power reaching the speakers. By turning the fader more to the rear position, more power will be distributed to the rear speakers, thereby protecting the smaller speakers in the front of the vehicle.

SPECIFICATIONS/FEATURES

- Active gain equalizer with adjustable input sensitivity
- Master volume control with up to 7 volts RMS of output
- Individual left and right sensitivity controls
- Four band parametric equalizer with 12dB boost/cut
- USB 2.0 full speed host function
- On-board 30V bipolar switching power supply
- Subwoofer level control
- Adjustable subwoofer frequency
- Gold-plated RCA input/output connectors
- Input MAIN/AUX select switch
- Night illumination
- Specific bandwidth for each band plus high frequency shelving
- 4 band graphic equalizer
- Equalizer line driver
- Front/rear outputs with fader control
- Adjustable subwoofer frequency (40Hz - 250Hz)
- Separate subwoofer frequency and level controls
- Center-dented boost/cut controls for each band
- Independent left and right input gain adjustments

FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE AND OR IMPROVEMENT WITHOUT NOTICE

BACK PANEL CONNECTIONS

1. POWER: After connecting the Ground, Remote, and Power wires, plug in the Power Lock connector here.

2. AUX INPUT: Plug in the RCA cables from the AUX source here (RCA to Mini-Jack adapter can be used with Mini-Jack equipped MP3 Players).

3. MAIN INPUT: Plug in the RCA cables from the MAIN source unit here.

4. LEFT AND RIGHT GAIN CONTROLS FOR THE AUX SOURCE: Sets left and right input gain to match the output level from the source unit.

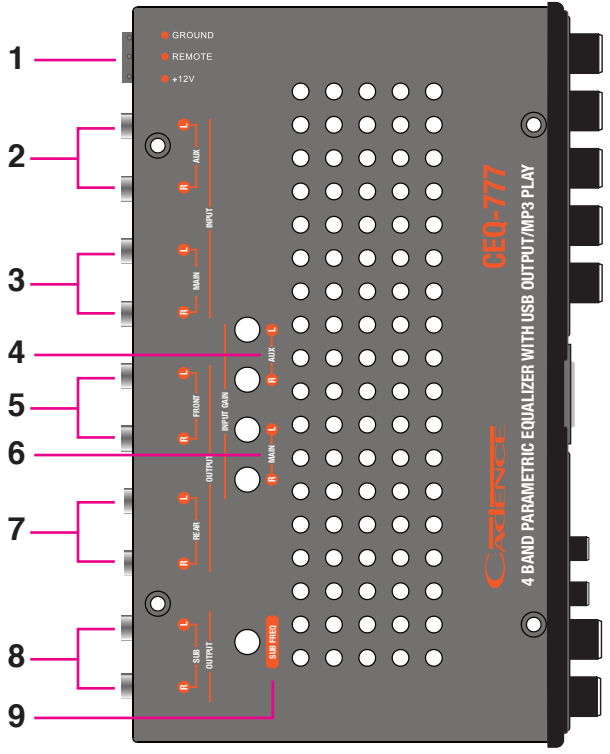
5. FRONT OUTPUT: Plug in the RCA cables to your front channel amplifier here.

6. LEFT AND RIGHT GAIN CONTROLS FOR THE SOURCE INPUT: Sets left and right input gain to match the output level from the source unit.

7. REAR OUTPUT: Plug in the RCA cables to your rear channel amplifier here.

8. SUBWOOFER OUTPUT: Plug in the RCA cables to your subwoofer amplifier here.

9. SUB FREQUENCY: This control adjusts subwoofer frequency from 40Hz to 250Hz.



CONTROLS

1. VOLUME CONTROL: Leave the source unit at 3/4 volume and use this control as the master volume control.

2. FADER CONTROL: Controls the output level to front and rear.

3. HI CONTROL: Hi band (20KHz) boost/cut control.

4. MID CONTROL: Mid band (2KHz) boost/cut control.

5. MID BASE: Mid low range band (200Hz) boost/cut control.

6. BASS CONTROL: Bass band (40Hz) boost/cut control.

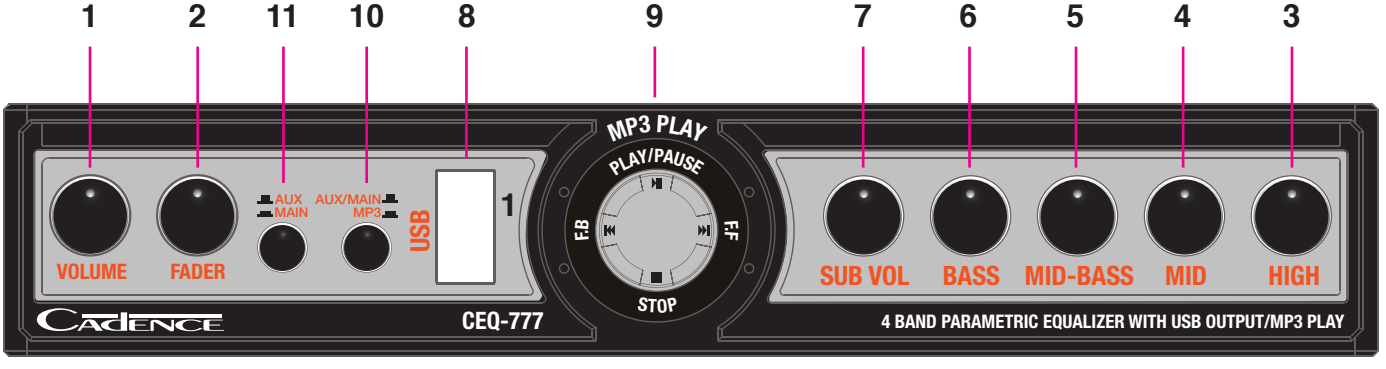
7. SUB VOLUME: Independent level control for subwoofer output.

8. USB 2.0 PORT: For memory stick input. 1 to 2 second delay depending on size of memory stick. Not iPod/MP3 player compatible. Not a USB charger.

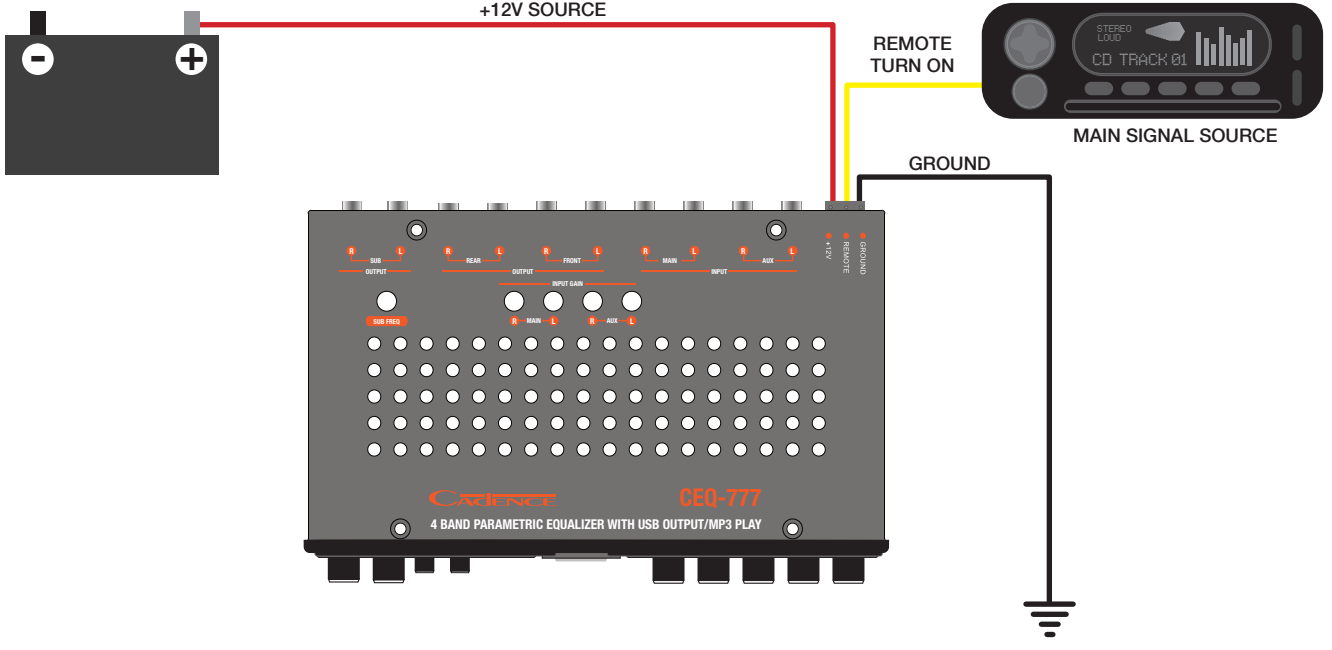
9. MP3 PLAY CONTROL: Controls USB memory stick input. FB=Fast Back (rewind), FF=Fast Forward, Play, Pause, and Stop.

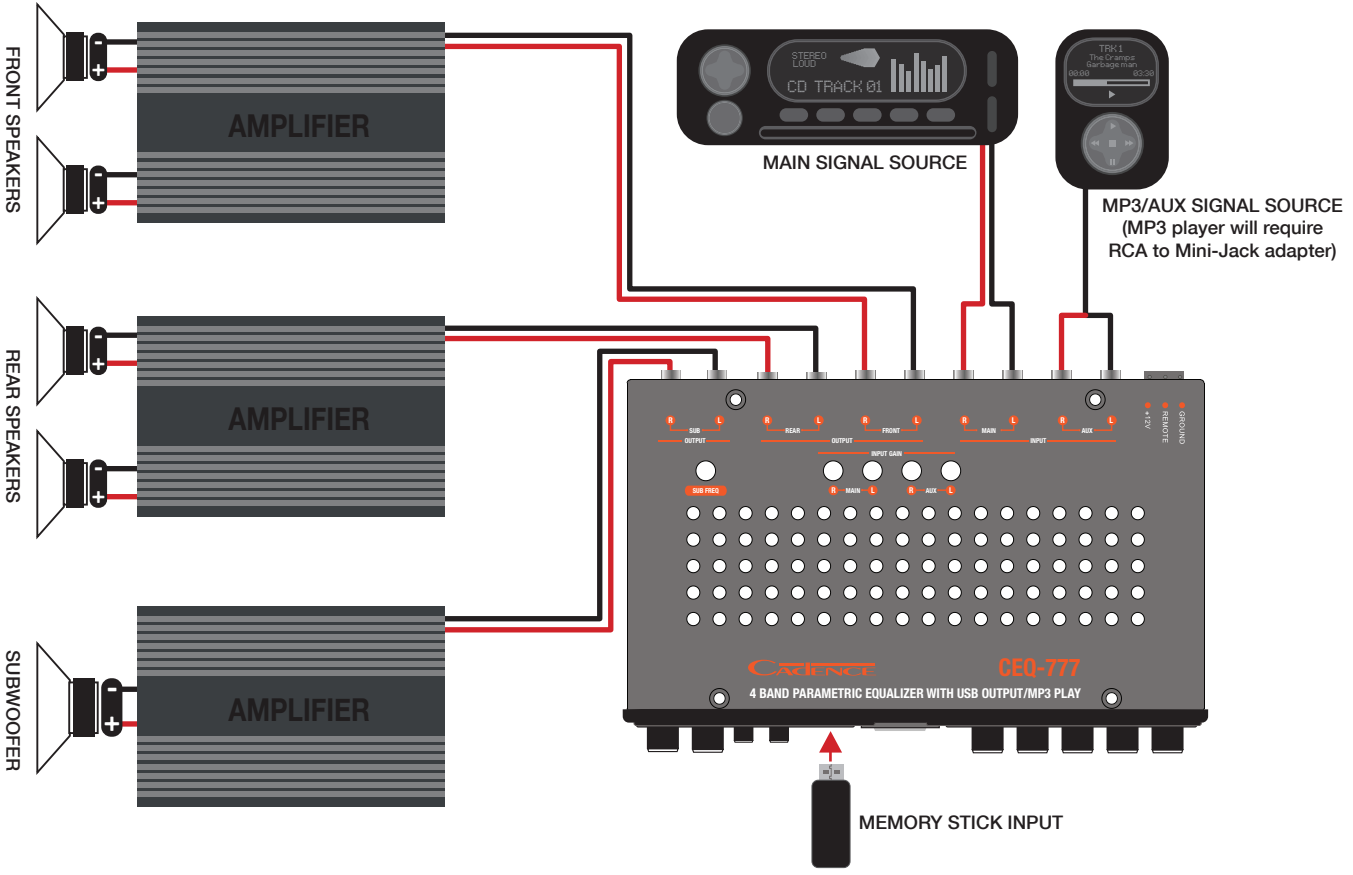
10. INPUT SELECTOR SWITCH: This switch selects the MAIN/ AUX input.

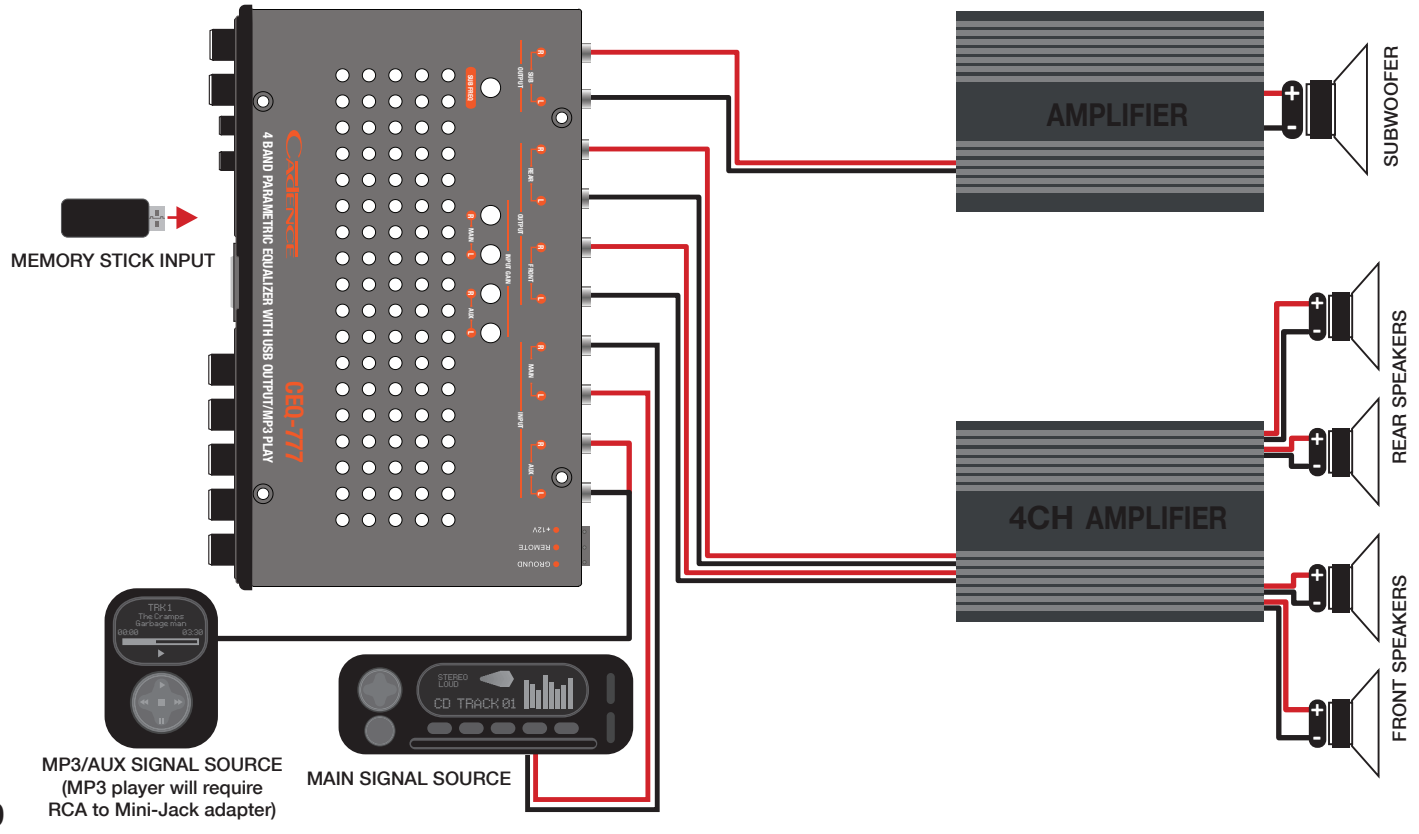
11. INPUT SELECTOR SWITCH: This switch selects the MAIN/ AUX/MP3 input.

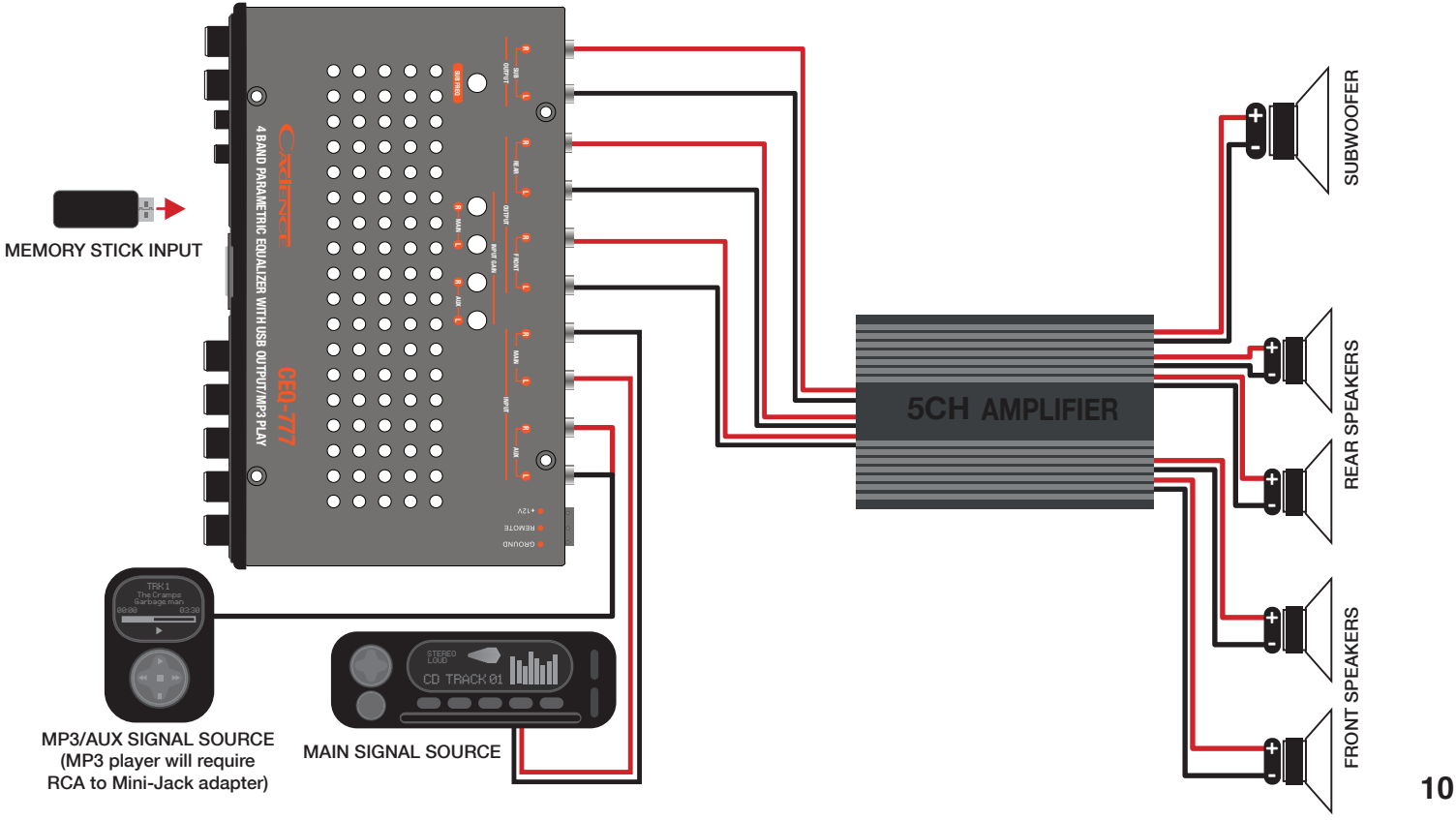

1
2
11
10
8
9
7
6
5
4
3
VOLUME
FADER
AUX
MAIN
AUX/MAIN
MP3
USB
1
MP3 PLAY
PLAY/PAUSE
F.B
F.F
STOP
SUB VOL
BASS
MID-BASS
MID
HIGH
CADENCE
CEQ-777
4 BAND PARAMETRIC EQUALIZER WITH USB OUTPUT/MP3 PLAY

WIRING DIAGRAMS / ELECTRICAL




FRONT SPEAKERS
AMPLIFIER
REAR SPEAKERS
AMPLIFIER
SUBWOOFER
AMPLIFIER
MAIN SIGNAL SOURCE
MP3/AUX SIGNAL SOURCE
(MP3 player will require
RCA to Mini-Jack adapter)
CEQ-777
4 BAND PARAMETRIC EQUALIZER WITH USB OUTPUT/MP3 PLAY
MEMORY STICK INPUT


MEMORY STICK INPUT
4 BAND PARAMETRIC EQUALIZER WITH USB OUTPUT/MP3 PLAY
CEQ-777
AMPLIFIER
SUBWOOFER
4CH AMPLIFIER
REAR SPEAKERS
FRONT SPEAKERS
MP3/AUX SIGNAL SOURCE
(MP3 player will require
RCA to Mini-Jack adapter)
MAIN SIGNAL SOURCE


MEMORY STICK INPUT
CADENCE
4 BAND PARAMETRIC EQUALIZER WITH USB OUTPUT/MP3 PLAY
CEQ-777
5CH AMPLIFIER
SUBWOOFER
REAR SPEAKERS
FRONT SPEAKERS
MP3/AUX SIGNAL SOURCE
(MP3 player will require
RCA to Mini-Jack adapter)
MAIN SIGNAL SOURCE
CD TRACK 01

FINAL SYSTEM CHECK

Begin with the radio in the off position. Set the fader and all the controls to their center positions. Switch your car ignition or accessory on and turn the radio volume down. The illumination around the knobs should now be lit. If nothing happens check for proper power, ground, and that the fuse is not blown. If all connections have been verified correct, check that the remote wire is actually getting power.

To the do-it-yourselfer, if you are sure of all your connections and the unit still does not operate properly, we request that you seek qualified help to verify that the installation was done properly before exchanging or sending back the unit for repair.

If your system turned on, slowly raise the volume of the CEQ-777 – the volume should increase from all your speakers. Rotate your radio balance in conjunction with the CEQ-777 fader to make sure that the sound is moving correctly from left to right and front to rear. It is important that your radio fader and balance be left in their center positions.

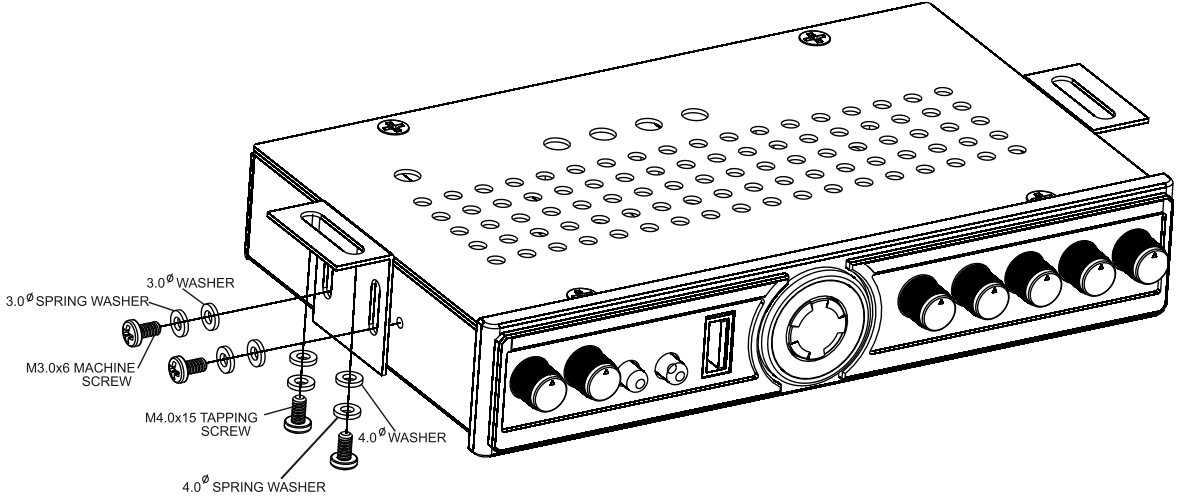
Adjusting the System:
Once you are certain that all the wiring is correct and that the unit turns properly you are ready to adjust the audio section.

1. Disconnect the amplifiers remote turn on leads.
2. Adjust all the amplifier gains to minimum.
3. Turn the master volume of the CEQ-777 to maximum.
4. Turn the volume of your head unit to maximum and then down a drop.
5. Switch on any secondary sound source you may have hooked into the MAIN/AUX inputs of the CEQ-777. Now adjust the input level controls found on the top of the unit chassis.
6. Reduce the master volume of the CEQ-777 and reconnect the remote turn on leads to the amplifiers.
7. Restart the system and increase the volume of the CEQ-777 to your desired listening pleasure.
8. The CEQ-777 should be able to run the system even with the amplifier gains set to minimum. If you can not reach your desired listening level you may raise the amplifier gains. Setting amplifier gains unnecessarily to maximum can cause cause noise problems in your system.

1. Select the location to mount the unit under the dashboard.

2. Drill (4) 4.2mm diameter holes. Fix the mounting bracket to the location with (4) 4 x 15mm tapping screws. Be careful when drilling so as not to damage existing wiring under the dash board.

3. Mount unit to the mounting bracket with (4) 3 x 6mm machine screws.



// Features and specifications subject to change and or improvement without notice.
Though we tried our best to ensure that this manual is free and clear of errors please don't hold us responsible for printing errors. //

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